# SEQUENCE LISTING

# (1) GENERAL INFORMATION:

- (i) APPLICANT: Wynn, Thomas
  Chiaramonte, Monica
  Collins, Mary
  Donaldson, Debra
  Fitz, Lori
  Neben, Tamlyn
  Whitters, Matthew
- (ii) TITLE OF INVENTION: TREATMENT OF FIBROSIS BY ANTAGONISM OF IL-13 AND IL-13 RECEPTOR CHAINS
- (iii) NUMBER OF SEQUENCES: 9
- (iv) CORRESPONDENCE ADDRESS:
  - (A) ADDRESSEE: Genetics Institute, Inc.
  - (B) STREET: 87 CambridgePark Drive

Wood, Clive

- (C) CITY: Cambridge
- (D) STATE: MA
- (E) COUNTRY: USA
- (F) ZIP: 02140
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Floppy disk
  - (B) COMPUTER: IBM PC compatible
  - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
  - (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER:
  - (B) FILING DATE:
  - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
  - (A) NAME: Brown, Scott A.
  - (B) REGISTRATION NUMBER: 32,724
  - (C) REFERENCE/DOCKET NUMBER: GI5268A2
  - (ix) TELECOMMUNICATION INFORMATION:
    - (A) TELEPHONE: (617) 498-8224
    - (B) TELEFAX: (617) 876-5851
- (2) INFORMATION FOR SEQ ID NO:1:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1525 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (iii) HYPOTHETICAL: NO

# (ix) FEATURE:

(A) NAME/KEY: CDS

(B) LOCATION: 256..1404

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

,,	
GAATTCGGCA CGAGGGAGAG GAGGAGGGAA AGATAGAAAG AGAGAGAG	60
CTACCCCTGA ACAGTGACCT CTCTCAAGAC AGTGCTTTGC TCTTCACGTA TAAGGAAGGA	120
AAACAGTAGA GATTCAATTT AGTGTCTAAT GTGGAAAGGA GGACAAAGAG GTCTTGTGAT	180
AACTGCCTGT GATAATACAT TTCTTGAGAA ACCATATTAT TGAGTAGAGC TTTCAGCACA	240
CTAAATCCTG GAGAA ATG GCT TTT GTG CAT ATC AGA TGC TTG TGT TTC ATT  Met Ala Phe Val His Ile Arg Cys Leu Cys Phe Ile  1 5 10	291
CTT CTT TGT ACA ATA ACT GGC TAT TCT TTG GAG ATA AAA GTT AAT CCT Leu Leu Cys Thr Ile Thr Gly Tyr Ser Leu Glu Ile Lys Val Asn Pro 15 20 25	339
CCT CAG GAT TTT GAA ATA TTG GAT CCT GGA TTA CTT GGT TAT CTC TAT Pro Gln Asp Phe Glu Ile Leu Asp Pro Gly Leu Leu Gly Tyr Leu Tyr 30 35 40	387
TTG CAA TGG AAA CCT CCT GTG GTT ATA GAA AAA TTT AAG GGC TGT ACA Leu Gln Trp Lys Pro Pro Val Val Ile Glu Lys Phe Lys Gly Cys Thr 45 50 55 60	435
CTA GAA TAT GAG TTA AAA TAC CGA AAT GTT GAT AGC GAC AGC TGG AAG Leu Glu Tyr Glu Leu Lys Tyr Arg Asn Val Asp Ser Asp Ser Trp Lys 65 70 75	483
ACT ATA ATT ACT AGG AAT CTA ATT TAC AAG GAT GGG TTT GAT CTT AAT Thr Ile Ile Thr Arg Asn Leu Ile Tyr Lys Asp Gly Phe Asp Leu Asn 80 85 90	531
AAA GGC ATT GAA GGA AAG ATA CGT ACG CAT TTG TCA GAG CAT TGT ACA Lys Gly Ile Glu Gly Lys Ile Arg Thr His Leu Ser Glu His Cys Thr 95 100 105	579
AAT GGA TCA GAA GTA CAA AGT CCA TGG ATA GAA GCT TCT TAT GGG ATA Asn Gly Ser Glu Val Gln Ser Pro Trp Ile Glu Ala Ser Tyr Gly Ile 110 115 120	627
TCA GAT GAA GGA AGT TTG GAA ACT AAA ATT CAG GAC ATG AAG TGT ATA Ser Asp Glu Gly Ser Leu Glu Thr Lys Ile Gln Asp Met Lys Cys Ile 125 130 135 140	675
TAT TAT AAC TGG CAG TAT TTG GTC TGC TCT TGG AAA CCT GGC AAG ACA Tyr Tyr Asn Trp Gln Tyr Leu Val Cys Ser Trp Lys Pro Gly Lys Thr 145 150 155	723
GTA TAT TCT GAT ACC AAC TAT ACC ATG TTT TTC TGG TAT GAG GGC TTG Val Tyr Ser Asp Thr Asn Tyr Thr Met Phe Phe Trp Tyr Glu Gly Leu 160 165 170	771
	010

GAT CAT GCC TTA CAG TGT GCT GAT TAC CTC CAG CAT GAT GAA AAA AAT

819

Asp	His	Ala 175	Leu	Gln	Cys	Ala	Asp 180	Tyr	Leu	Gln	His	Asp 185	Glu	Lys	Asn	
					TCC Ser											867
					GGA Gly 210					_		_				915
					CTT Leu											963
					GTG Val											1011
					CCC Pro											1059
					GAT Asp											1107
					AGG Arg 290											1155
					ĞТС Val						-					1203
	_				GAG Glu											1251
					ATA Ile											1299
					CTT Leu											1347
					GAT Asp 370										GAT Asp 380	1395
	CTC Leu		TAA	ACCA	CCA I	ATTT(	CTTG	AC AT	raga(	GCAG	G CCI	AGCA	GGAG			1444
TCA	TTAT	AAA (	CTCA	ATTT	CT CT	TAAT	\ATT	r cg/	LATA(	CATC	TTCT	TGA/	AAA :	rccai	ААААА	1504
AAA	<b>LAAA</b>	AAA A	<b>LAAA</b>	ACTCO	GA G											1525

# (2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 383 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
- Met Ala Phe Val His Ile Arg Cys Leu Cys Phe Ile Leu Cys Thr
  1 5 10 15
- Ile Thr Gly Tyr Ser Leu Glu Ile Lys Val Asn Pro Pro Gln Asp Phe \$20\$ \$25\$ \$30  $^{\circ}$
- Glu Ile Leu Asp Pro Gly Leu Leu Gly Tyr Leu Tyr Leu Gln Trp Lys
  35 40 45
- Pro Pro Val Val Ile Glu Lys Phe Lys Gly Cys Thr Leu Glu Tyr Glu
  50 55 60
- Leu Lys Tyr Arg Asn Val Asp Ser Asp Ser Trp Lys Thr Ile Ile Thr
  65 70 75 80
- Arg Asn Leu Ile Tyr Lys Asp Gly Phe Asp Leu Asn Lys Gly Ile Glu 85 90 95
- Gly Lys Ile Arg Thr His Leu Ser Glu His Cys Thr Asn Gly Ser Glu
  100 105 110
- Val Gln Ser Pro Trp Ile Glu Ala Ser Tyr Gly Ile Ser Asp Glu Gly
  115 120 125
- Ser Leu Glu Thr Lys Ile Gln Asp Met Lys Cys Ile Tyr Tyr Asn Trp 130 135 140
- Gln Tyr Leu Val Cys Ser Trp Lys Pro Gly Lys Thr Val Tyr Ser Asp 145 150 155 160
- Thr Asn Tyr Thr Met Phe Phe Trp Tyr Glu Gly Leu Asp His Ala Leu 165 170 175
- Gln Cys Ala Asp Tyr Leu Gln His Asp Glu Lys Asn Val Gly Cys Lys 180 185 190
- Leu Ser Asn Leu Asp Ser Ser Asp Tyr Lys Asp Phe Phe Ile Cys Val 195 200 205
- Asn Gly Ser Ser Lys Leu Glu Pro Ile Arg Ser Ser Tyr Thr Val Phe 210 215 220
- Gln Leu Gln Asn Ile Val Lys Pro Leu Pro Pro Glu Phe Leu His Ile 225 230 235 240
- Ser Val Glu Asn Ser Ile Asp Ile Arg Met Lys Trp Ser Thr Pro Gly 245 250 255
- Gly Pro Ile Pro Pro Arg Cys Tyr Thr Tyr Glu Ile Val Ile Arg Glu

260	265	270

Asp	Asp	Ile 275	Ser	Trp	Glu	Ser	Ala 280	Thr	Asp	Lys	Asn	Asp 285	Met	Lys	Leu	
Lys	Arg 290	Arg	Ala	Asn	Glu	Ser 295	Glu	Asp	Leu	Суѕ	Phe 300	Phe	Val	Arg	Суѕ	
Lys 305	Val	Asn	Ile	Tyr	Cys 310	Ala	Asp	Asp	Gly	Ile 315	Trp	Ser	Glu	Trp	Ser 320	
Glu	Glu	Glu	Суѕ	Trp 325	Glu	Gly	Туr	Thr	330	Pro	Asp	Ser	Lys	11e 335	Ile	
Phe	Ile	Val	Pro 340	Val	Cys	Leu	Phe	Phe 345	Ile	Phe	Leu	Leu	Leu 350	Leu	Leu	
Cys	Leu	Ile 355	Val	Glu	Lys	Glu	Glu 360	Pro	Glu	Pro	Thr	Leu 365	Ser	Leu	His	
Val	Asp 370	Leu	Asn	Lys	Glu	Val 375	Суѕ	Ala	Tyr	Glu	Asp 380	Thr	Leu	Суѕ		
(2)	INF	ORMA!	rion	FOR	SEQ	ID I	NO:3	:								
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 1369 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA																
	(iii	HY)	РОТН	ETIC	AL: 1	Ю					•					
	(ix		A) N	E: AME/I OCAT:			12	45								
	(xi	) SE	QUEN	CE DI	ESCR:	IPTI	ON:	SEQ :	ID N	0:3:						
GGA	rccg	CGC (	GGAT	GAAG	GC T	ATTT	GAAG'	r cg	CCAT	AACC	TGG	TCAG	AAG	TGTG	CCTGTC	6
GGC	GGGG	AGA (	GAGG(	CAAT	AT C	aagg'	rt'rt	A AA'	rctc(	GGAG			GCT Ala			11
	TTG Leu															16:
	TGT Cys															210
GAT																

						CTG Leu										30	06
TAT Tyr	GAA Glu 70	CTA Leu	AAA Lys	TAC Tyr	CGA Arg	AAC Asn 75	ATT Ile	GGT Gly	AGT Ser	GAA Glu	ACA Thr 80	TGG Trp	AAG Lys	ACC Thr	ATC Ile	35	54
						TAC Tyr										40	02
						ACG Thr										4	50
						TGG Trp										4	98
						AAA Lys										5	46
															CTT	5	94
															CAT His 180	6	42
															GGA Gly	6	90
														Tyr	ATT Ile	7	38
								Lys					Ser		TTC Phe	7	86
												Pro			CTT Leu	8	334
						Ser					Leu				Ile 260	8	882
					Pro					Asp					ATC Ile	9	930
				Thr					Ala					Glu	ACA Thr	9	78

					ACA Thr											1026
					ATT Ile											1074
					TGC Cys 330											1122
					CTA Leu											1170
					CTT Leu										ATG Met	1218
					TGT Cys			TGA *	AGA	CTTT(	CCA '	ratc.	AAGA(	GA		1265
CAT	GGTA'	TTG Z	ACTC	AACAG	GT T	rcca	STCA?	r GG(	CCAA	ATGT	TCA	TAT	GAG '	TCTC.	AATAAA	1325
CTG	AATT"	TTT (	CTTG	GAA	AA AA	LAAAA	<b>AAAA</b>	A AA	ATCC	GCGG	ATC	2				1369
(2)	INF	ORMA'	rion	FOR	SEQ	ID 1	NO : 4	:								
		(i) :	(A (B	) LEI	CHAI NGTH PE: 3	: 380 amin	am:	ino i id		s	,					
	(	ii) 1	MOLE	CULE	TYP	E: p	rote	in								
	(:	xi)	SEQU	ENCE	DES	CRIP'	rion	: SE	Q <sub>.</sub> ID	NO:	4:					
Met 1	Ala	Phe	Val	Cys 5	Leu	Ala	Ile	Gly	Суs 10	Leu	Tyr	Thr	Phe	Leu 15	Ile	
Ser	Thr	Thr	Phe 20	Gly	Cys	Thr	Ser	Ser 25	Ser	Asp	Thr	Glu	Ile 30		Val	
Asn	Pro	Pro 35	Gln	Asp	Phe	Glu	Ile 40	Val	Asp	Pro	Gly	Tyr 45	Leu	Gly	Туг	
Leu	Tyr 50	Leu	Gln	Trp	Gln	Pro 55	Pro	Leu	Ser	Leu	Asp 60	His	Phe	Lys	Glu	
Cys 65	Thr	Val	Glu	Tyr	Glu 70	Leu	Lys	Tyr	Arg	Asn 75	Ile	Gly	Ser	Glu	Thr 80	
Trp	Lys	Thr	Ile	Ile 85	Thr	Lys	Asn	Leu	His 90	Tyr	Lys	Asp	Gly	Phe 95	Asp	
Leu	Asn	Lys	Gly 100	Ile	Glu	Ala	Lys	Ile 105	His	Thr	Leu	Leu	Pro		Gln	

- Cys Thr Asn Gly Ser Glu Val Gln Ser Ser Trp Ala Glu Thr Thr Tyr 115 120 125
- Trp Ile Ser Pro Gln Gly Ile Pro Glu Thr Lys Val Gln Asp Met Asp 130 135 140
- Cys Val Tyr Tyr Asn Trp Gln Tyr Leu Leu Cys Ser Trp Lys Pro Gly 145 150 155 160
- Ile Gly Val Leu Leu Asp Thr Asn Tyr Asn Leu Phe Tyr Trp Tyr Glu 165 170 175
- Gly Leu Asp His Ala Leu Gln Cys Val Asp Tyr Ile Lys Ala Asp Gly
  180 185 190
- Gln Asn Ile Gly Cys Arg Phe Pro Tyr Leu Glu Ala Ser Asp Tyr Lys 195 200 205
- Asp Phe Tyr Ile Cys Val Asn Gly Ser Ser Glu Asn Lys Pro Ile Arg 210 215 220
- Ser Ser Tyr Phe Thr Phe Gln Leu Gln Asn Ile Val Lys Pro Leu Pro 225 230 235 240
- Pro Val Tyr Leu Thr Phe Thr Arg Glu Ser Ser Cys Glu Ile Lys Leu 245 250 255
- Lys Trp Ser Ile Pro Leu Gly Pro Ile Pro Ala Arg Cys Phe Asp Tyr 260 265 270
- Glu Ile Glu Ile Arg Glu Asp Asp Thr Thr Leu Val Thr Ala Thr Val 275 280 285
- Glu Asn Glu Thr Tyr Thr Leu Lys Thr Thr Asn Glu Thr Arg Gln Leu 290 295 300
- Cys Phe Val Val Arg Ser Lys Val Asn Ile Tyr Cys Ser Asp Asp Gly 305 310 315 320
- Ile Trp Ser Glu Trp Ser Asp Lys Gln Cys Trp Glu Gly Glu Asp Leu 325 330 335
- Ser Lys Lys Thr Leu Leu Arg Phe Trp Leu Pro Phe Gly Phe Ile Leu 340 345 350
- Ile Leu Val Ile Phe Val Thr Gly Leu Leu Leu Arg Lys Pro Asn Thr 355 360 365
- Tyr Pro Lys Met Ile Pro Glu Phe Phe Cys Asp Thr \* 370 375 380
- (2) INFORMATION FOR SEQ ID NO:5:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 17 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: oligonucleotide

(XI) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
KSRCTCCABK CRCTCCA	17
(2) INFORMATION FOR SEQ ID NO:6:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 20 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: oligonucleotide	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
ATAGTTAAAC CATTGCCACC	20
(2) INFORMATION FOR SEQ ID NO:7:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 20 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: oligonucleotide	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
CTCCATTCGC TCCAAATTCC	20
(2) INFORMATION FOR SEQ ID NO:8:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 21 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: oligonucleotide	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
AGTCTATCTT ACTTTTACTC G	21
(2) INFORMATION FOR SEQ ID NO:9:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 22 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	

(ii) MOLECULE TYPE: oligonucleotide

CATCTGAGCA ATAAATATTC AC

22